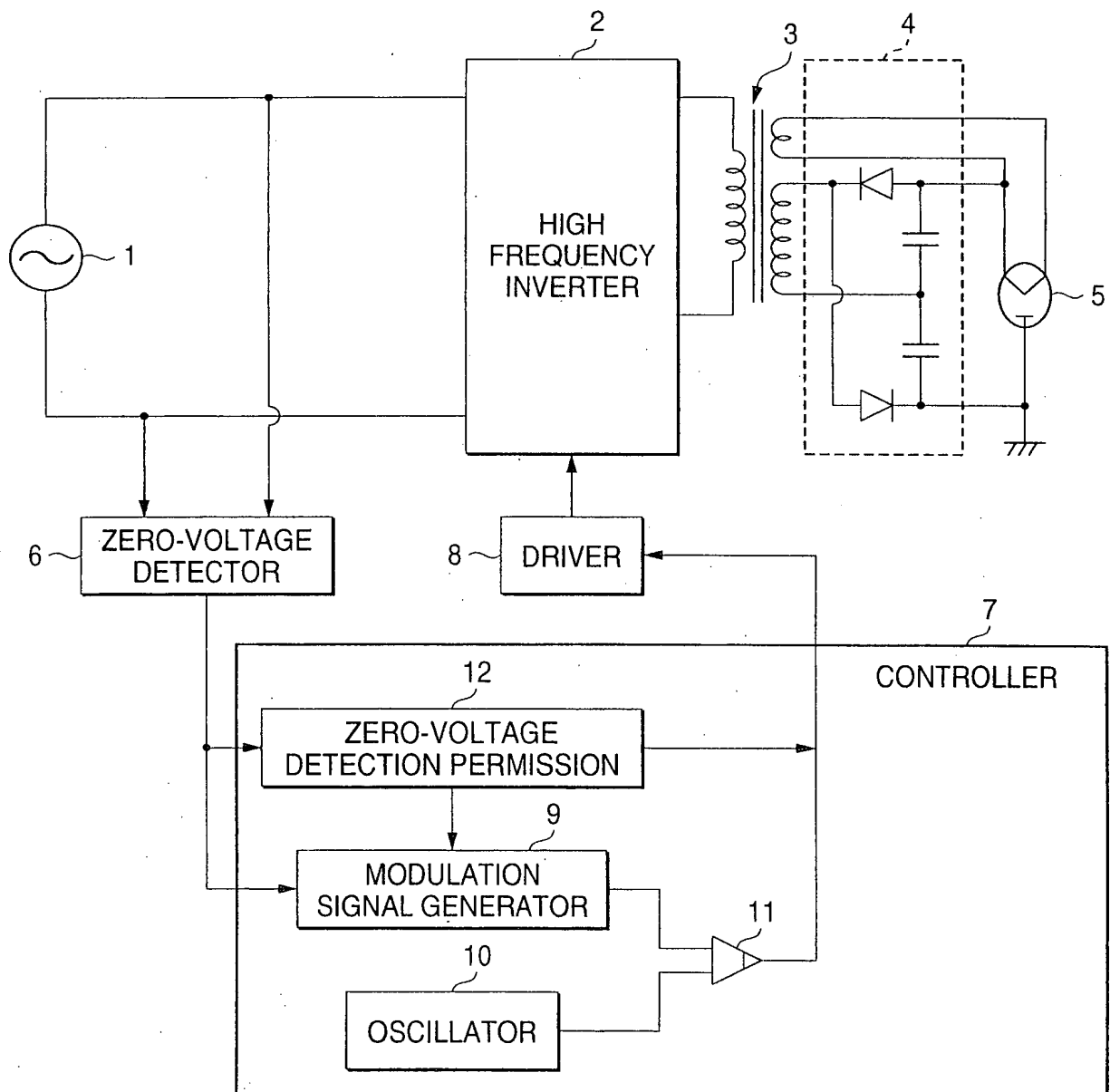
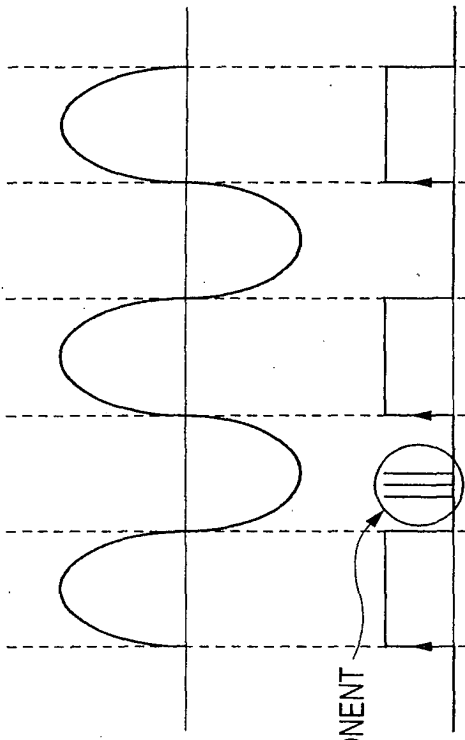


FIG. 1



COMMERCIAL
POWER SUPPLY



NOISE COMPONENT
ZERO-VOLTAGE
DETECTION

ZERO-VOLTAGE
DETECTION
PERMISSION SIGNAL

ZERO-VOLTAGE
DETECTION
PERMISSION SIGNAL



MODULATION
SIGNAL

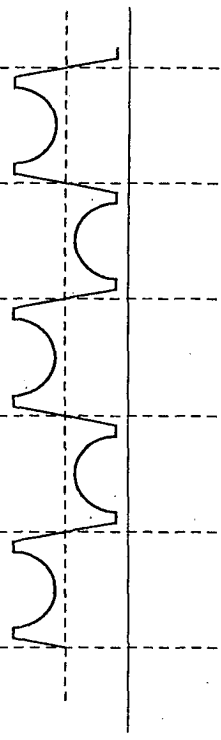


FIG. 2A

FIG. 2B

FIG. 2C

FIG. 2D

FIG. 3A

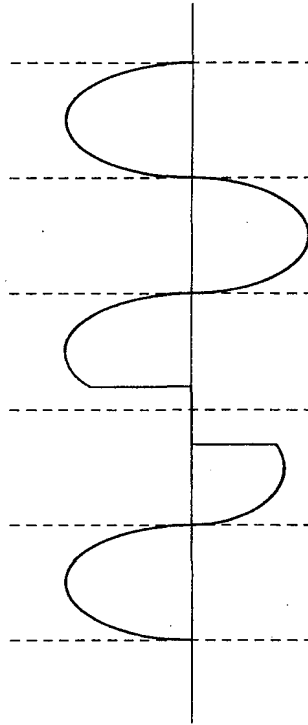


FIG. 3B



FIG. 3C

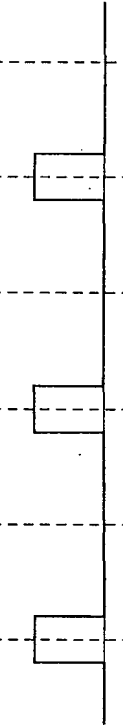


FIG. 3D

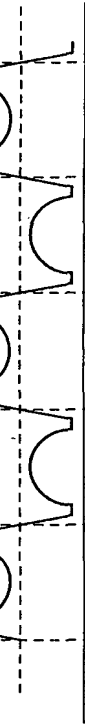


FIG. 4A

COMMERCIAL
POWER SUPPLY

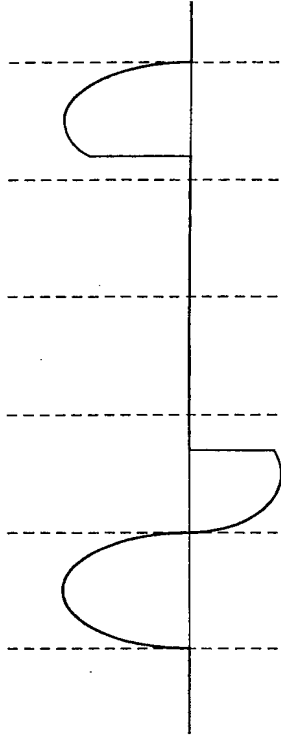


FIG. 4B

ZERO-VOLTAGE
DETECTION



FIG. 4C

ZERO-VOLTAGE
DETECTION
PERMISSION SIGNAL



FIG. 4D

MODULATION
SIGNAL



FIG. 4E

INVERTER
START SIGNAL



FIG. 5

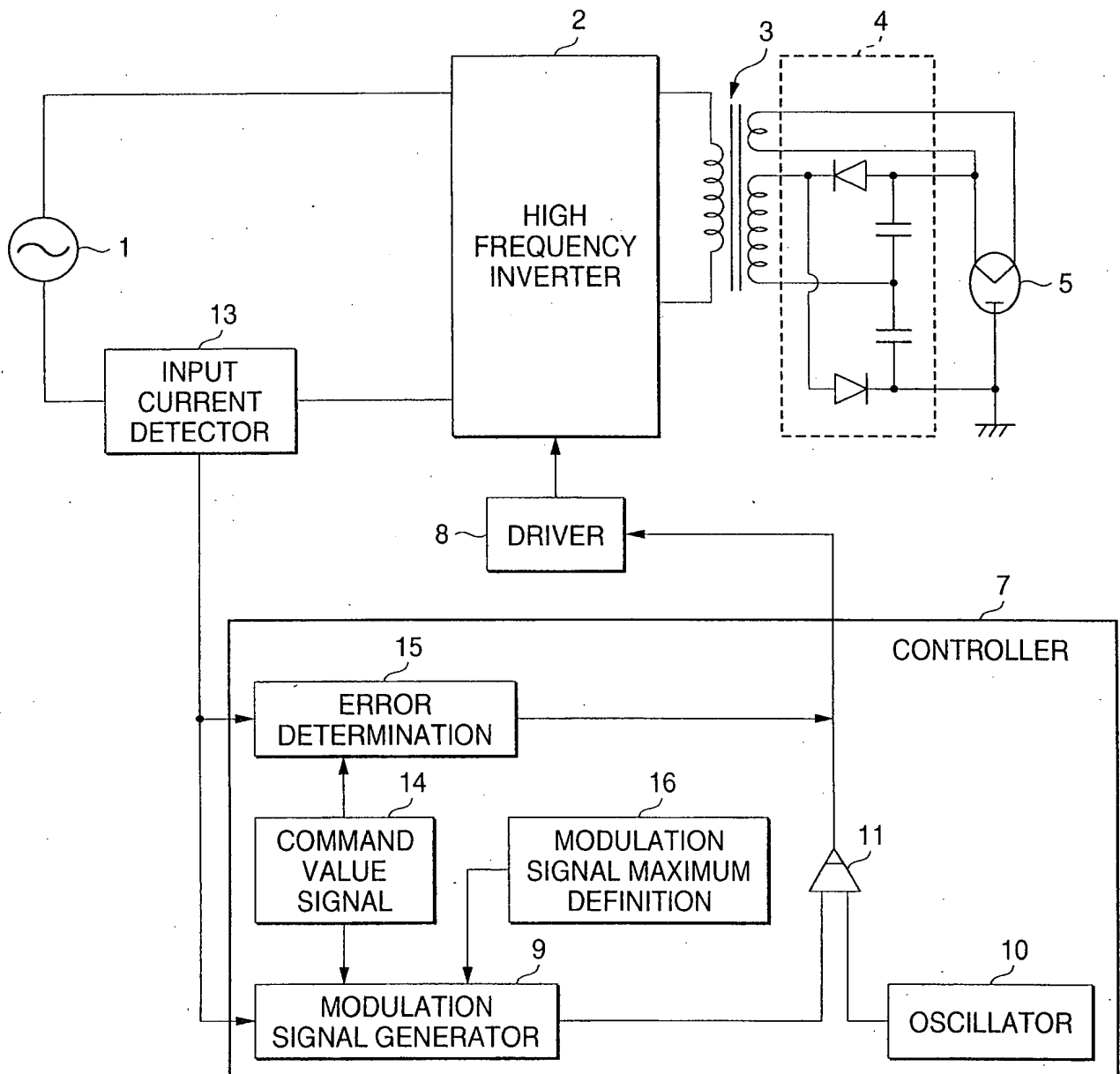


FIG. 6

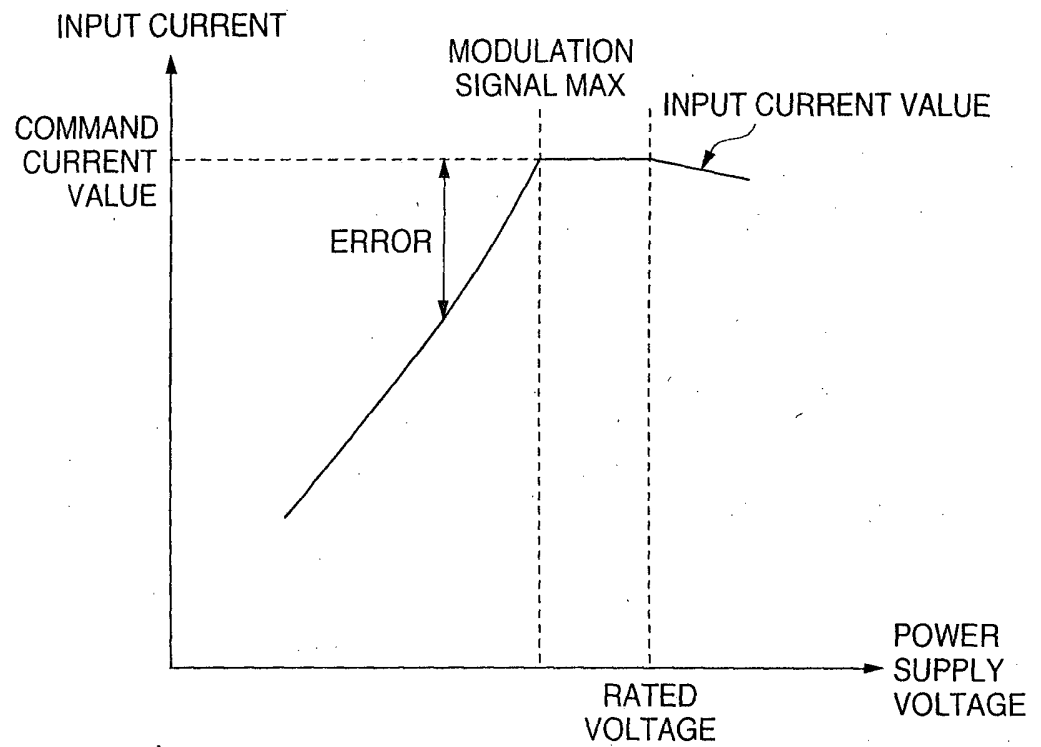


FIG. 7

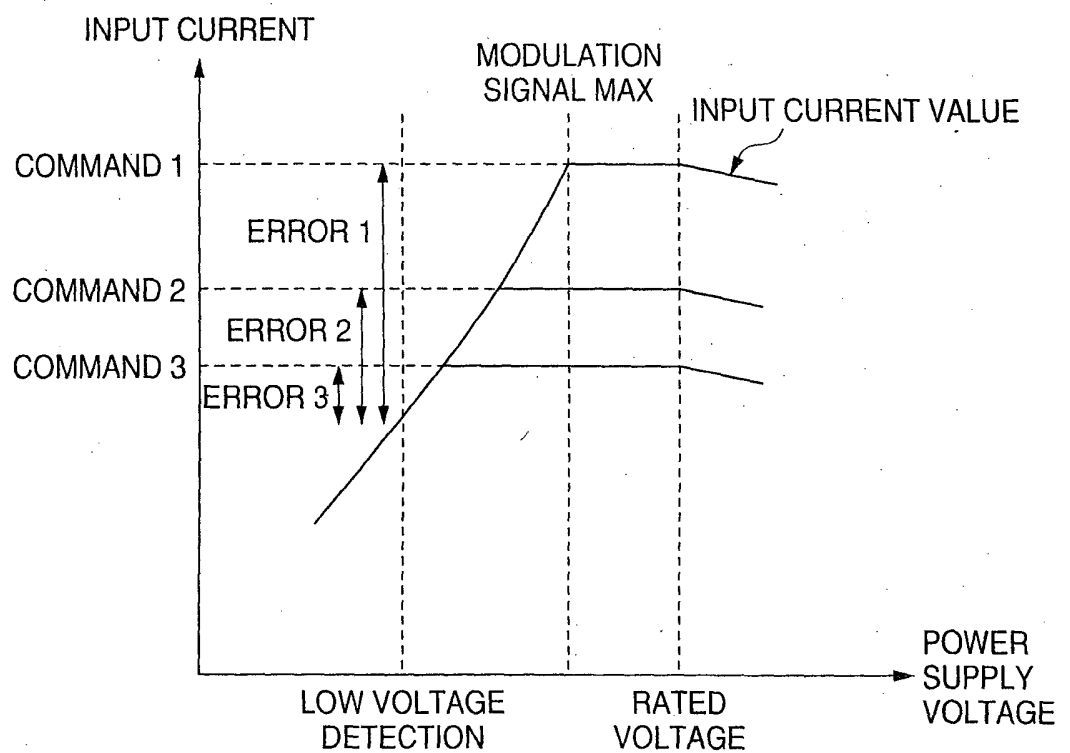


FIG. 8

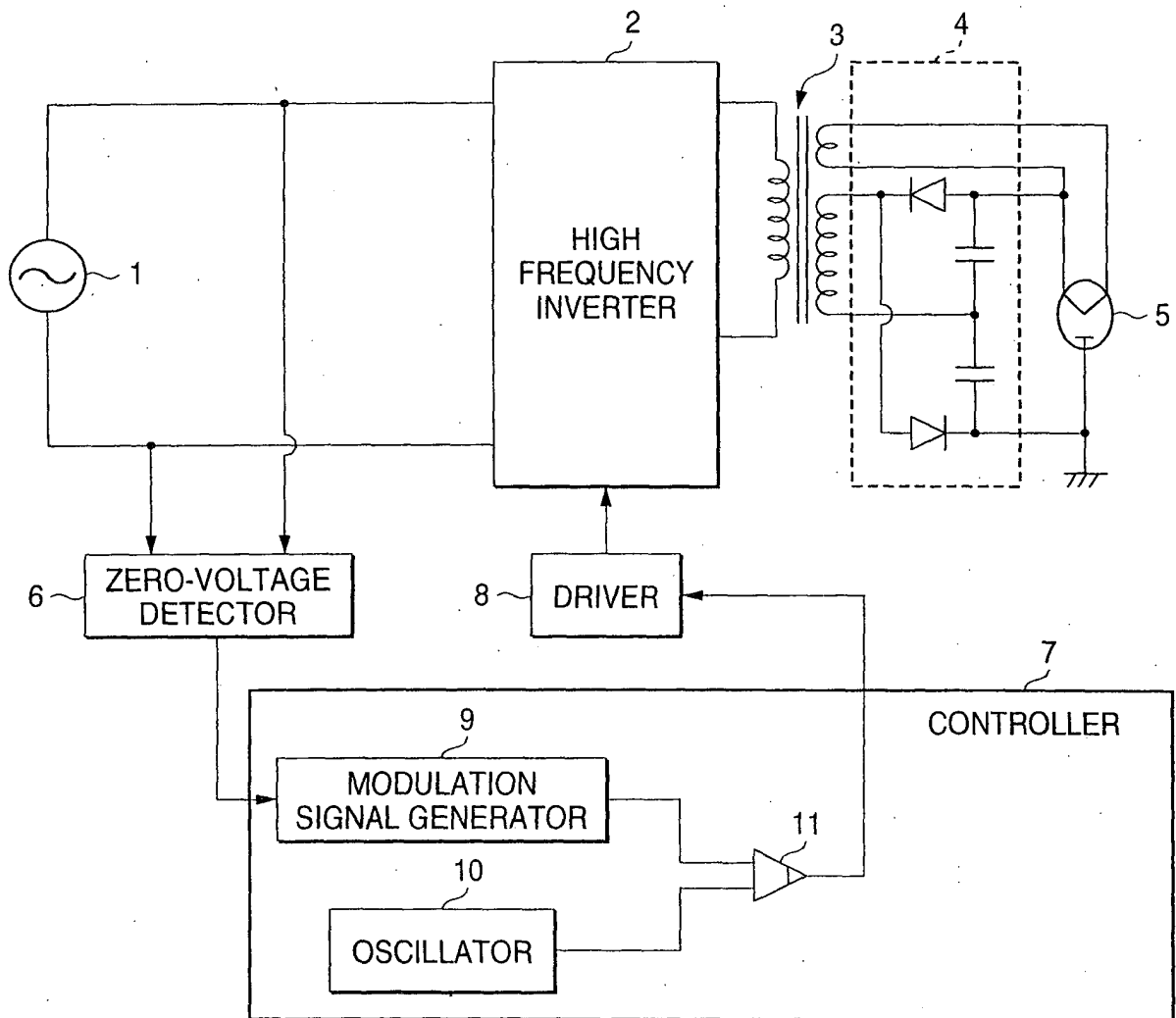


FIG. 9A
COMMERCIAL
POWER SUPPLY

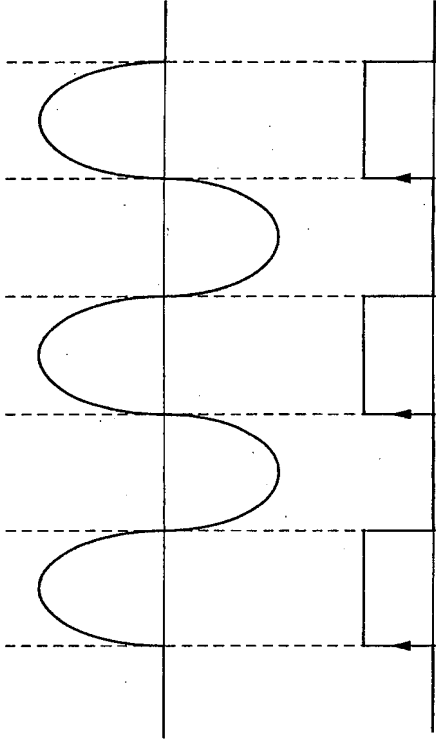


FIG. 9B
ZERO-VOLTAGE
DETECTION

FIG. 9C
MODULATION
SIGNAL

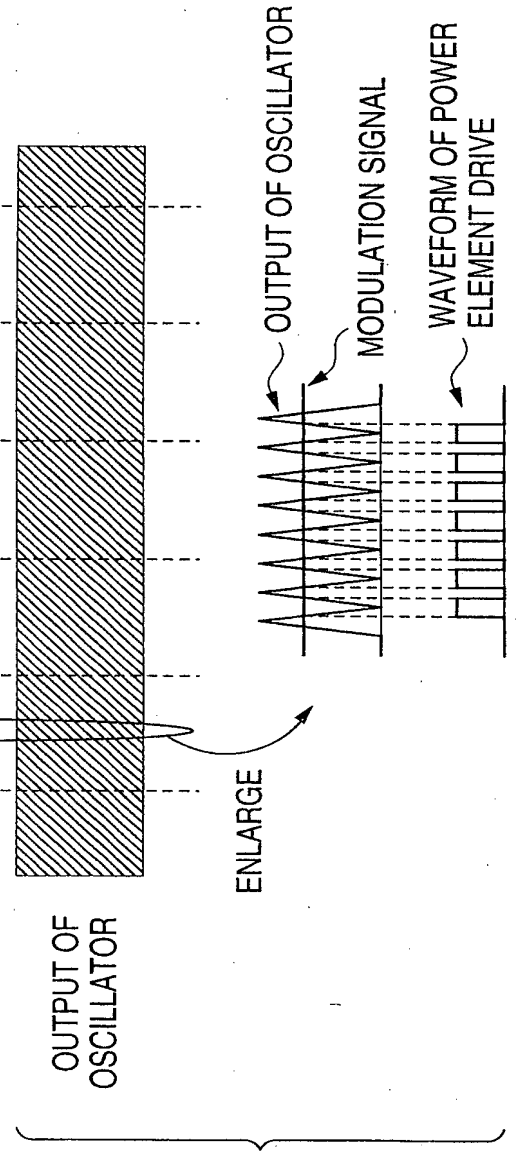


FIG. 9D